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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS

1. – 58. (canceled)

59. (Currently Amended) A plant expression cassette , wherein said expression cassette expresses allowing in-seed , with tissue specific expression , [[of]] a non-degraded human lactoferrin wherein , said cassette comprising a gene encoding [[the]] human lactoferrin [[is]] , said gene being operatively linked to a regulation element of \underline{DNA} sequences coding for the promoter and the leader sequence of soybean protein $\underline{7S}$ basic globulin $\underline{7S}$ or to a regulation element of protein $\underline{\beta}$ conglycinine.

60. (Canceled)

61. (Currently Amended) The plant expression cassette according to claim [[60]] <u>59</u>, wherein said promoter has the sequence reported in the annexed sequence listing as SEQ. ID NO 21.

62. (Canceled)

63. (Currently Amended) The plant expression cassette according to claim [[62]] <u>59</u> wherein said leader sequence is the sequence reported as SEQ. ID NO: 13.

64. – 67. (Canceled)

68. (Previously presented) The plant expression cassette of claim 59 wherein said gene encoding the human lactoferrin has the sequence reported as SEQ ID NO: 1.

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69. (Previously presented) A recombinant DNA vector comprising the plant expression cassette of claim 59.

70. (Canceled)

71. (Currently Amended) The recombinant DNA vector according to claim [[70]] 69, wherein said promoter has the sequence reported in the annexed sequence listing as SEQ. ID NO 21.

72. (Canceled)

73. (Currently Amended) The recombinant DNA vector according to claim [[72]] 69 wherein said leader sequence [[is]] has the sequence reported as SEQ. ID NO: 13.

74. – 77. (Canceled)

78. (Currently Amended) The recombinant DNA vector according to claim 69, wherein said plant expression cassette includes the gene coding for human lactoferrin having has SEQ ID NO: 1.

79. (Currently Amended) A method for using the vector according to claim 69 for the transformation of vegetal cells <u>comprising</u>:

transferring said vector in competent agrobacterium cells; and transforming said vegetal cells with the agrobacterium cells obtained from said transferring.

- 80. (Previously presented) A vegetal cell including the vector of claim 69.
- 81. (Currently Amended) A cellular aggregation obtainable obtained from cells according to claim 80.

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- **82.** (Currently Amended) The cellular aggregation according to claim 81 wherein said aggregation[[s]] are calluses is a callus, and wherein said callus is capable of regenerating a transgenic plant[[s]].
- 83. (Previously presented) A transgenic plant, comprising the expression cassette of claim 59, said plant expressing in-seed the non-degraded protein human lactoferrin.
- **84.** (Currently Amended) The transgenic plant according to claim 83, said plant being selected from the group consisting of solanaceae, cereals <u>and</u> leguminosae , fruit bearing plants and horticultural plants.
- **85.** (Previously presented) The transgenic plant according to claim 84, said plant being selected from the group consisting of soya, tobacco and rice.
- **86.** (Currently Amended) A method of using the transgenic plant according to claim 83 for the production of non-degraded human lactoferrin <u>comprising</u>:

extracting said non-degraded human lactoferrin from seeds of said plant.

87. (Currently Amended) A method of using the transgenic plant according to claim 83 for the production of human lactoferrin-containing flours or human lactoferrin extracts obtained from seeds of said transgenic plant comprising:

collecting the seeds of the transgenic plant according to claim 83; and grinding said seeds.

- 88. (Currently Amended) A method of using the transgenic plant according to claim 83 for the production of functional foods containing human lactoferrin comprising:

 collecting the seeds of the transgenic plant according to claim 83; and introducing said seeds or products of said seeds in food preparations.
- 89. (Previously presented) The method according to Claim 88, wherein said functional

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foods are selected from the group consisting of vegetal milks, fruit juices, fruit and/or vegetable homogenized foods.

- 90. (Currently Amended) A method of using the The transgenic plant of claim 83 for the production of as nutriceutical[[s]] comprising human lactoferrin.
- 91. (New) A method for using the vector according to claim 69 for transformation of vegetal cells comprising:

subjecting said cells to bombing with a suitable biolistic system; and biolistically transforming said cells with said vector.

92. (New) A method for production of human lactoferrin extracts comprising: collecting the seeds of the transgenic plant according to claim 83; and extracting human lactoferrin from said seeds.

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